

Variable	Metric	Years	Source
Climate			
Sea surface temperature, °C	July-June mean, 31-34.5 and 34.5-40.5°N, coast to 100 km offshore	1980-2018	1
Sea surface height, m	July-June mean, 31-34.5 and 34.5-40.5°N, coast to 100 km offshore	1980-2018	1
Isothermal Layer Depth, m	July-June mean, 31-34.5 and 34.5-40.5°N, coast to 100 km offshore	1980-2018	1
Brunt-Väisälä Frequency, s ⁻¹ (stratificatoin)	July-June mean, 31-34.5 and 34.5-40.5°N, coast to 100 km offshore	1980-2018	1
CUTI, m ² s ⁻¹ (upwelling)	July-June mean, 31-34.5 and 34.5-40.5°N, coast to 75 km offshore	1980-2018	1
BEUTI, mmol s ⁻¹ m ⁻¹ (nitrate flux)	July-June mean, 31-34.5 and 34.5-40.5°N, coast to 75 km offshore	1980-2018	1
Biology			
<i>Zalophus californianus</i> pup births (California sea lion)	Annual mean live pup count, San Miguel, CA, log-tranformed	1997-2018	2
<i>Zalophus californianus</i> pup weight	Annual mean femlae pup weight, San Miguel, CA, log-tranformed	1997-2018	2
<i>Zalophus californianus</i> pup growth rate	Annual mean, female pup growh rate, San Miguel, CA	1997-2018	2
<i>Oceanodroma homochroa</i> (ashy storm-petrel)	Standardized seabird productivity anomaly, SE Farallon Island	1971-2018	3
<i>Phalacrocorax penicillatus</i> (Brandt's cormorant)	Standardized seabird productivity anomaly, SE Farallon Island	1971-2018	3
<i>Ptychoramphus aleuticus</i> (Cassin's auklet)	Standardized seabird productivity anomaly, SE Farallon Island	1971-2018	3
<i>Uria aalge</i> (common murre)	Standardized seabird productivity anomaly, SE Farallon Island	1972-2018	3
<i>Phalacrocorax pelagicus</i> (pelagic cormorant)	Standardized seabird productivity anomaly, SE Farallon Island	1971-2018	3
<i>Cephus columba</i> (pigeon guillemot)	Standardized seabird productivity anomaly, SE Farallon Island	1971-2016	3
<i>Cerorhinca monocerata</i> (rhinocerus auklet)	Standardized seabird productivity anomaly, SE Farallon Island	1986-2018	3
<i>Larus occidentalis</i> (western gull)	Standardized seabird productivity anomaly, SE Farallon Island	1971-2018	3
<i>Bathylagoides wesethi</i> (snubnose blacksmelt)	Standardized spring ichthyoplankton density, log-transformed	1951-2018	4
<i>Bathylagus pacificus</i> (slender blacksmelt)	Standardized spring ichthyoplankton density, log-transformed	1951-2018	4
<i>Ceratoscopus townsendi</i> (Dogtooth lampfish)	Standardized spring ichthyoplankton density, log-transformed	1951-2018	4
<i>Engraulis mordax</i> (northern anchovy)	Standardized spring ichthyoplankton density, log-transformed	1951-2018	4
<i>Leuroglossus stilbius</i> (California smoothtongue)	Standardized spring ichthyoplankton density, log-transformed	1951-2018	4
<i>Lipolagus ochotensis</i> (eared blacksmelt)	Standardized spring ichthyoplankton density, log-transformed	1951-2018	4
<i>Merluccius productus</i> (Pacific hake)	Standardized spring ichthyoplankton density, log-transformed	1951-2018	4
<i>Protomyctophum crockeri</i> (California flashlightfish)	Standardized spring ichthyoplankton density, log-transformed	1951-2018	4
<i>Sardinops sagax</i> (Pacific sardine)	Standardized spring ichthyoplankton density, log-transformed	1951-2018	4
<i>Stenobranchius leucopsarus</i> (northern lampfish)	Standardized spring ichthyoplankton density, log-transformed	1951-2018	4
<i>Symbolophorus californiensis</i> (bigfin lanternfish)	Standardized spring ichthyoplankton density, log-transformed	1951-2018	4
<i>Tarletonbeania crenularis</i> (blue lanternfish)	Standardized spring ichthyoplankton density, log-transformed	1951-2018	4
<i>Triphoturus mexicanus</i> (Mexican lampfish)	Standardized spring ichthyoplankton density, log-transformed	1951-2018	4
<i>Vinciguerria</i> spp. (Lightfishes)	Standardized spring ichthyoplankton density, log-transformed	1951-2018	4
<i>Citharichthys sordidus</i> (Pacific sanddab)	Standardized juvenile counts, log-transformed, core survey area	1990-2018	5
<i>Citharichthys stigmaeus</i> (speckled sanddab)	Standardized juvenile counts, log-transformed, core survey area	1990-2018	5
<i>Doryteuthis opalescens</i> (market squid)	Standardized counts, log-transformed, core survey area	1990-2018	5
<i>Engraulis mordax</i> (northern anchovy)	Standardized juvenile counts, log-transformed, core survey area	1990-2018	5
<i>Euphausiacea</i> (krill)	Standardized counts, log-transformed, core survey area	1990-2018	5
<i>Merluccius productus</i> (Pacific hake)	Standardized juvenile counts, log-transformed, core survey area	1990-2018	5
<i>Sardinops sagax</i> (Pacific sardine)	Standardized counts (juv & adult), log-transformed, core survey area	1990-2018	5
<i>Sebastes entomelas</i> (widow rockfish)	Standardized juvenile counts, log-transformed, core survey area	1990-2018	5
<i>Sebastes goodei</i> (chilipepper rockfish)	Standardized juvenile counts, log-transformed, core survey area	1990-2018	5
<i>Sebastes jordani</i> (shortbelly rockfish)	Standardized juvenile counts, log-transformed, core survey area	1990-2018	5
<i>Sebastes mystinus</i> (blue rockfish)	Standardized juvenile counts, log-transformed, core survey area	1990-2018	5
<i>Sebastes paucispinis</i> (bocaccio rockfish)	Standardized juvenile counts, log-transformed, core survey area	1990-2018	5
<i>Sebastes semicinctus</i> (halfbanded rockfish)	Standardized juvenile counts, log-transformed, core survey area	1990-2018	5